

INTERNATIONAL SEARCH REPORT

International Application No

PCT/ 03/03213

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H04B7/06

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 H04B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, COMPENDEX, INSPEC, PAJ, IBM-TDB, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 92 10890 A (QUALCOMM INC) 25 June 1992 (1992-06-25) abstract page 1, line 9 - line 13 page 2, line 8 - line 18 page 4, line 6 - line 9 page 5, line 26 -page 6, line 5 page 7, line 20 -page 9, line 9 page 17, line 30 -page 19, line 18 figures 1-5 ---	1-7
X	US 5 513 176 A (GILHOUSEN KLEIN S ET AL) 30 April 1996 (1996-04-30) abstract column 1, line 15 -column 6, line 22 figures 1-11 --- -/-	1-7

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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G document member of the same patent family

Date of the actual completion of the international search

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Name and mailing address of the ISA

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PCT/03/03213

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 533 011 A (GILHOUSEN KLEIN S ET AL) 2 July 1996 (1996-07-02) abstract column 1, line 10 -column 6, line 22 figures 1-11 ---	1-7
X	US 5 781 541 A (SCHNEIDER ALLAN) 14 July 1998 (1998-07-14) abstract column 3, line 13 -column 4, line 65 column 7, line 52 - line 55 column 13, line 40 -column 14, line 16 figures 2,4,6 ---	1-7
A	WO 02 19565 A (NOKIA MOBILE PHONES LTD ;KUCHI KIRAN (US)) 7 March 2002 (2002-03-07) abstract page 1 -page 4, line 4 page 8, line 15 - line 19 figures 1A,2,3A,4 -----	1-7

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT 03/03213

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 9210890	A	25-06-1992	AU 652602 B2 01-09-1994
			AU 9138691 A 08-07-1992
			BG 61052 B1 30-09-1996
			BG 97842 A 25-04-1994
			BR 9107213 A 03-11-1993
			CA 2097066 A1 08-06-1992
			CZ 9301097 A3 13-04-1994
			FI 932523 A 02-08-1993
			HU 64655 A2 28-01-1994
			IL 100213 A 30-03-1995
			JP 3325890 B2 17-09-2002
			JP 6504660 T 26-05-1994
			KR 9700790 B1 20-01-1997
			MX 9102432 A1 01-06-1992
			NO 932041 A 04-06-1993
			RU 2111619 C1 20-05-1998
			SK 57193 A3 06-10-1993
			WO 9210890 A1 25-06-1992
			US 5513176 A 30-04-1996
			US 5533011 A 02-07-1996
			US 5602834 A 11-02-1997
			US 5280472 A 18-01-1994
US 5513176	A	30-04-1996	US 5280472 A 18-01-1994
			AT 148965 T 15-02-1997
			AU 671563 B2 29-08-1996
			AU 7639094 A 21-03-1995
			BR 9405563 A 08-09-1999
			CA 2147635 A1 02-03-1995
			CN 1119057 A , B 20-03-1996
			DE 69401744 D1 27-03-1997
			DE 69401744 T2 04-09-1997
			DK 667068 T3 18-08-1997
			EP 0667068 A1 16-08-1995
			ES 2100086 T3 01-06-1997
			FI 951935 A 26-06-1995
			GR 3023316 T3 29-08-1997
			HK 63897 A 23-05-1997
			IL 110765 A 30-10-1998
			JP 3325895 B2 17-09-2002
			JP 8505503 T 11-06-1996
			KR 237903 B1 15-01-2000
			RU 2107989 C1 27-03-1998
			SG 52795 A1 28-09-1998
			WO 9506365 A1 02-03-1995
			US 5533011 A 02-07-1996
			US 5602834 A 11-02-1997
			US 9406418 A 24-04-1995
			ZA 9406418 A 01-09-1994
			AU 652602 B2 08-07-1992
			AU 9138691 A 30-09-1996
			BG 61052 B1 25-04-1994
			BG 97842 A 03-11-1993
			BR 9107213 A 08-06-1992
			CA 2097066 A1 13-04-1994
			CZ 9301097 A3 02-08-1993
			FI 932523 A 28-01-1994
			HU 64655 A2 30-03-1995
			IL 100213 A 30-03-1995

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT 03/03213

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 5513176	A	JP 3325890 B2	17-09-2002
		JP 6504660 T	26-05-1994
		KR 9700790 B1	20-01-1997
		MX 9102432 A1	01-06-1992
		NO 932041 A	04-06-1993
		RU 2111619 C1	20-05-1998
		SK 57193 A3	06-10-1993
		WO 9210890 A1	25-06-1992
US 5533011	A	02-07-1996	
		US 5513176 A	30-04-1996
		US 5280472 A	18-01-1994
		AT 148965 T	15-02-1997
		AU 671563 B2	29-08-1996
		AU 7639094 A	21-03-1995
		BR 9405563 A	08-09-1999
		CA 2147635 A1	02-03-1995
		CN 1119057 A , B	20-03-1996
		DE 69401744 D1	27-03-1997
		DE 69401744 T2	04-09-1997
		DK 667068 T3	18-08-1997
		EP 0667068 A1	16-08-1995
		ES 2100086 T3	01-06-1997
		FI 951935 A	26-06-1995
		GR 3023316 T3	29-08-1997
		HK 63897 A	23-05-1997
		IL 110765 A	30-10-1998
		JP 3325895 B2	17-09-2002
		JP 8505503 T	11-06-1996
		KR 237903 B1	15-01-2000
		RU 2107989 C1	27-03-1998
		SG 52795 A1	28-09-1998
		WO 9506365 A1	02-03-1995
		US 5602834 A	11-02-1997
		ZA 9406418 A	24-04-1995
		AU 652602 B2	01-09-1994
		AU 9138691 A	08-07-1992
		BG 61052 B1	30-09-1996
		BG 97842 A	25-04-1994
		BR 9107213 A	03-11-1993
		CA 2097066 A1	08-06-1992
		CZ 9301097 A3	13-04-1994
		FI 932523 A	02-08-1993
		HU 64655 A2	28-01-1994
		IL 100213 A	30-03-1995
		JP 3325890 B2	17-09-2002
		JP 6504660 T	26-05-1994
		KR 9700790 B1	20-01-1997
		MX 9102432 A1	01-06-1992
		NO 932041 A	04-06-1993
		RU 2111619 C1	20-05-1998
		SK 57193 A3	06-10-1993
		WO 9210890 A1	25-06-1992
US 5781541	A	14-07-1998	NONE
WO 0219565	A	07-03-2002	
		AU 5357301 A	13-03-2002
		WO 0219565 A2	07-03-2002